10/743581 Page 2

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 SEP 2005 HIGHEST RN 862883-42-9 DICTIONARY FILE UPDATES: 11 SEP 2005 HIGHEST RN 862883-42-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=>

Uploading C:\Program Files\Stnexp\Queries\10-743581.str

chain nodes : 19 20 21 22 23 24 25 27 28 ring nodes : 11 12 13 14 15 8 9 10 16 17 chain bonds : 19-22 19-23 20-21 1-21 11-27 17-22 19-20 20-24 21-25 27-28 28-29 28-30 ring bonds : 2-5 2-6 3-4 3-5 3-6 4-7 4-8 5-9 7-10 8-11 8-12 9-11 10-13 10-14 12-15 13-16 14-17 15-16 16-18 17-18 exact/norm bonds : 19-22 19-23 20-24 21-25 27-28 28-29 1-21 11-27 17-22 28-30 exact bonds : 2-5 2-6 3-4 3-5 3-6 4-7 4-8 5-9 7-10 8-11 8-12 9-11 10-13 10-14 12-15 13-16 14-17 15-16 16-18 17-18 19-20 20-21 isolated ring systems : containing 2 :

Match level :

1:CLASS 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:Atom 27:CLASS 28:CLASS 29:CLASS 30:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful

FULL SEARCH INITIATED 18:33:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 965 TO ITERATE

100.0% PROCESSED 965 ITERATIONS

45 ANSWERS

161.54

SEARCH TIME: 00.00.01

L2 45 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 161.33

FILE 'CAPLUS' ENTERED AT 18:34:01 ON 12 SEP 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

10/743581 Page 4

The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 12 Sep 2005 VOL 143 ISS 12 FILE LAST UPDATED: 11 Sep 2005 (20050911/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 12 L3 4 L2

=> d ibib abs hitstr tot

L3 ANSWER 1 OP 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115:152986
115 DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	ENT	NO.			KIN	,	DATE			APPI	ICAT	ION	NO.		D	ATE	
															-		
WO	2001	0570	30		Al		2001	0809	1	NO 2	2001-	US35	54		2	0010	202
											BR,						
		cz.	DB.	DK.	DM.	EE,	ES,	PI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,
		IN.	IS.	JP.	KE.	KG.	KP.	KR,	KZ.	LC,	LK,	LR,	LS,	LT,	w,	LV,	MA,
											PT,						
		SK.	SL,	TJ,	TM,	TR,	TT,	TZ.	UA,	UG,	UZ,	VN,	YU,	ZA,	ZW,	AM,	AZ,
		BY,	KG,	KZ,	KD,	RU,	TJ,	TH									
	RW:										TZ,						
											LU,						BF,
		BJ.	CF,	œ,	CI,	CM,	GA,	GN,	G₩,	KL,	MR,	NE,	SN,	TD,	TG		
CA	2368 2001	540			AA.		2001	0809		CA 2	2001 -	2368	540		2	0010	202
AU	2001	0347	93		A5		2001	0814		AU 2	1001-	3479	3		2	0010	202
AU	7761	22			B2		2004	0826									
BR	2001	0043	51		Α		2002	0102		BR 2	2001 -	4351			2	0010	202
EP	7761 2001 1165	552			A1		2002	0102		EP 2	2001 -	9069	52		2	0010	202
	R:	AT,	BE,	CH,	DE.	DK,	ES,	PR,	GB,	GR,	IT,	LI,	w.	NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV,	FI,	RO										
US	2002	0524	03		A1		2002	0502	-	us a	2001 -	7764	26		2	0010	202
US	2002 6638 2002 6780	973			B2		2003	1028									
US	2002	0653	04		A1		2002	0530		us a	2001 -	7761	37		2	0010	202
US	6780	879			B2		2004	0824									
TR	2001	0285	7		T1		2002	0621		TR 2	1001-	2001	0285	7	2	0010	202
JP	2003	5221	70		T2		2003	0722		JP 2	2001-	5578	62		2	0010	202
NZ	5143	80			A		2005	0324		NZ 2	2001-	5143	80		2	0010	202
EP	1285	919			A1		2003	0226		EP 2	2001-	1187	27		2	0010	806
	R:	AT,	BE,	СН,	DE,	DK,	ES,	FR,	ĢΒ,	GR,	IT,	LI,	LU,	ΝL,	SE,	MC,	PŤ,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	λL,	TR						
NO	2001	0047	55		А		2001	1129		NO 2	3001-	4755	~		2	0011	001
BG	1059	66			A		2002	0731		BG 2	2001-	1059	66	`	2	0011	001
ZA	2001	0080	51		A		2003	1201		ZA :	3001-	8051		1	2	0011	001
US	2004	0975	79		A1		2004	0520		us a	3003 -	é80 6	49	Ā	2	0031	007
US	2004	1382	67		A1		2004	0715		us a	5003-	7435	81	¥ -	2	0031	222
US PRIORITY	2005	1650	51		A1		2005	0728		us 2	2005-	8238	•	1	. ?	0050	317
RIORIT	APP	LN.	INPO	. :						US 2	2000-	1796	717/		P 2	0000	202
	2001 2003 5143 1285 R: 2001 1059 2001 2004 2004 2005 7 APP									us a	2000-	1796	69P		P 2	0000	202
										us a	3000-	1796	70P		P 2	0000	202

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) carbonate substituent at C(7) were prepd. and tested as antitumor agents. II was prepd. and had in vitro cytotoxicity of ID50 of < 1 nm against HCT116 cells. Pharmaceutical compns. contg. I are described. 152427-39-3P 352698-18-1P 352698-19-2P 352698-20-5P 352698-21-6P 352698-22-7P 352698-33-0P 352698-24-9P 352698-23-0P 352698-24-9P 352698-24-9P 352698-31-0P 352698-31-9P 352698-31-0P 352698-31-0P 352698-31-0P 352698-31-0P 352698-31-0P 352698-31-0P 352698-41-0P 352698-31-2P 352698-41-0P 352698-51-0P 352698-51-0P 352698-51-0P 352698-51-0P 352698-51-0P 352698-51-0P 352698-51-0P 352698-61-4P 3

4a,8,13,13-tetramethyl-5-oxo-4-[{(phenylmethoxy)carbonyl}oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, {αR,βR}- (9CI) (CA INDEX NAME)

6.11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR, β R)-

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (US 2000-179672P (Continued) P P 20000202 US 2000-179684P P 20000202 US 2000-179782P P 20000202 US 2000-179793P P 20000202 US 2000-179794P P 20000202 US 2001-776137 A1 20010202 US 2001-776426 A3 20010202 WO 2001-US3554 W 20010202 US 2003-743581 A1 20031222

OTHER SOURCE(S): MARPAT 135:152986

Taxanes I (R = acyloxy; R1 = carbonate; R2 = keto, hydroxy, acyloxy; R3 = hydroxy; R4 = hydrido, hydroxy; X = substituted or unsubstituted alkyl, alkynyl, Ph, heterocyclo; X1 = COX2, COXX2, CONHX2; X2 = hydrocarbyl, substituted hydrocarbyl, heterocyclo; Ac = acetyl) having a

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (9C1) (CA INDEX NAME) (Continued)

Absolute stereochemistry.

352698-19-2 CAPLUS
2-Thiophenepropanoic acid, α-hydroxy-β-[([1-methylethoxy)carbonyl]amino]-, (2aR, 45, 4a5, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy)2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4a, 8, 13, 13-tetramethyl-5-oxo-7, 11-methano-1H-cyclodeca[3, 4]benz[1, 2-b] oxet-9-yl ester, (αR, βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-20-5 CAPLUS 2-Thiophenepropanoic acid, σ -hydroxy- β -[(3-methyl-1-oxo-2-butenyl)sminol-, (2aR, 48, 485, 6R, 98, 115, 128, 128R, 1285)-12b-(acetyloxyl-12-(benzol)xoyl-4-[(athoxycerbonyl)xoxyl-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4a, 8, 13, 13-tetramethyl-5-oxo-7, 11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (α R, β R)- (9CI) [CA INDEX NAME]

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry.

352698-21-6 CAPLUS 2-Thiophenepropanoic acid, β -(benzoylamino)- α -hydroxy-, (2aR.45,4aS,6R,95,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-([ethoxycarbonylloxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,11,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (α R, β R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-22-7 CAPLUS 2-Thiophenepropanoic acid, β -[(2-furanylcarbonyl)amino]- α -hydroxy-, (2aR, 4S, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-(acetyloxy)-12-

(benzovloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-

- ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) 2-Thiophenepropanoic acid, α -hydroxy- β -[(3-methyl-1-oxo-2-butenyl)amino]-, (2aR,45,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

Absolute stereochemistry.

- 153698-25-0 CAPLUS 2-Thiophenepropanoic acid, β -[[(1,1-dimethylethoxy)carbonyl]amino]- α -hydroxy-. (2aR,48,485,6R,98,115,125,12aR,12bS)-12b-(acetyloxy)-12-
- (benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR, BR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

ANSMER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) $\{(\text{acthoxycarbonyl}) \text{ oxyl} - 4a.8, 13.13-tetramethyl-5-oxo-7, 11-methano-1H-cyclodeca (3.4)benz(1.2-b) oxet-9-yl ester, (<math>\alpha R, \beta R$) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-23-8 CAPLUS 2-Thiophenepropanoic acid, β -[[(1,1-dimethylethoxy)carbonyl]amino]-a-hydroxy-, (2aR,4S,485,6R,9S,11S,12S,12aR,12bS)-12b-{acetyloxy}-12-{benzoyloxy}-4-{[ethoxycarbonyl]oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[],4}benz[1,2-b]oxet-9-yl ester, (α R, β R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-24-9 CAPLUS

- ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) 352698-26-1 CAPLUS 2-Thiophenepropanoic acid, B-[(2-furanylcarbonyl)amino)-o-hydroxy-, (2aR, 4S, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxyl-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4a, 8, 13, 13-tetramethyl-5-oxo-7, 11-methano-1H-cyclodeca[3, 4]benz[1, 2-b]oxet-9-yl ester, (aR, BR)- (9CI) (CA

- 352698-28-3 CAPLUS
 2-Thiophenepropenoic acid, α-hydroxy-β-{{(2-methylpropoxy)(carbonyl)amino]-, (2eR, 4S, 4eS, 6R, 9S, 11S, 12S, 12eR, 12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-
- 6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, {qR, RR}-(9CI) (CA INDEX NAME)

Absolute stereochemistry

ANSWER 1 OF 4 CAPLUS COPTRIGHT 2005 ACS on STN (Continued) 352698-29-4 CAPLUS 2-1 Thiophenepropanoic acid, α -hydroxy- β -{{2-mchylpropoxy}carbonyllamino}-, {2aR, 45, 485, 6R, 95, 115, 125, 12aR, 12b5}-12b-(acetyloxy)-12-(bentoxyloxy)-4-(fethoxycarbonylloxy)-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dedecahydro-6, 11-dihydroxy-4a, 8, 13, 13-tetramethyl-5-oxxo-7, 11-methano-IN-cyclodeca{3,4}benz{1,2-b}oxet-9-ylester, (QR, β R)-{9CI} (CA INDEX NAME)

Absolute stereochemistry.

352698-30-7 CAPLUS

332898-30-7 CAPUS 2-Thiophenepropanoic acid, β -(benzoylamino)- α -hydroxy-, (2aR, 4S, 48S, 6R, 9S, 11S, 12F, 12aR, 12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecabydro-6, 11-dihydroxy-4-(methoxycarbonyl)oxy]-4a, 8, 13, 13-tetramethyl-5-oxo-7, 11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (α R, β R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) [(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR, BS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-33-0 CAPLUS 2-Thiophenepropanoic acid, α -hydroxy- β -{{2-thiophenepropanoic acid, α -hydroxy- β -{{2-thienylcarbonyl}amino}-, {2aR, 45, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS}-12b-{acetyloxy}-12-(benzoyloxy)-4-{{ethoxycarbonyl}oxy}-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4a, 8, 13, 13-tetramethyl-5-oxo-7, 11-methano-1H-cyclodeca{3,4}benz[1,2-b]oxet-9-ylester, $(\alpha R, \beta R)$ -{9Cl} (CA INDEX NAME)

Absolute stereochemistry.

 $\label{eq:continuous} \begin{array}{lll} 352698\text{-}34\text{-}1 & \text{CAPLUS} \\ 3\text{-}Thiophenepropanoic acid, } \beta\text{-}[\{(1,1\text{-}dimethylethoxy)carbonyl]amino]-} \\ \alpha\text{-}hydroxy-, & (2aR, 48, 485, 6R, 98, 118, 128, 12aR, 12bS)-12b-(acetyloxy)-12-\\ \end{array}$

(benzoyloxy) -2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

352698-31-8 CAPLUS
2-Thiophenepropanoic acid, a-hydroxy-B-[{2-thiophenepropanoic acid, a-hydroxy-B-[-{2-thiophenepropanoic acid, a-hydroxy-B-[

6,11-dihydroxy-4-{{methoxycarbonyl}oxy}-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca{3,4|benz{1,2-b}oxet-9-yl ester, (qR, RR)-{9CI} (CA INDEX NAME)

Absolute stereochemistry.

352698-32-9 CAPLUS
3-Puranpropanoic acid, B-[[{1,1-dimethylethoxy)carbonyl]amino|a-hydroxy-, (2aR, 45, 485, 6R, 95, 115, 125, 12aR, 12b5)-12b-{acetyloxy}-12-

(benzoyloxy) -2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4-

ANSMER 1 OF 4 CAPLUS COPYRIGHT 2005 λ CS on STN (Continued) [(methoxycarbonyl)oxy]-48,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (α R, β S)- (9C1) (CA INDEX NAME)

152698-36-3 CAPLUS 3-Thiophenepropanoic acid, β -[[[1,1-dimethylethoxy]carbonyl]amino]- α -hydroxy-, [2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[[cthoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [α R, β S)- [9CI] (CA INDEX NAME)

Absolute stereochemistry.

352698-39-6 CAPLUS 2-Puranpropanoic acid, β -[{{1,1-dimethylethoxy}carbonyl]amino}- α -hydroxy-, {2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS}-12b-{acetyloxy}-12-

(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-

ANSMER 1 OF 4 CAPLUS COPTRIGHT 2005 ACS on STN (Continued) [(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR, RR)- (9CI) (CA INDEX NAME)

352698-41-0 CAPLUS
3-Puranpropanoic acid, α-hydroxy-β-[[(2-methylpropxy)carbonyllamino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-

6.11-dihydroxy-4-{(methoxycarbonyl)oxy)-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR, \$\$)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

352698-46-5 CAPLUS 3-Thiophenepropanoic acid, α -hydroxy- β -{{(2-methylpropay)carbonyl]amino}-, (2aR, 45, 485, 6R, 95, 115, 125, 126R, 12b5)-12b-(acetyloxy)-12-(benzoyloxy)-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-

6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR, pS)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

 $\begin{array}{lll} 352698-48-7 & CAPLUS \\ 2-Puranpropanoic acid, & a-hydroxy-\beta-[\{(2-methylpropoxy) carbonyl\}amino]-, & (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]- \\ 2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca(3,4)benz(1,2-b)oxet-9-ylester, & (\alphaR,\betaR)-(9CI) & (CA INDEX NAME) \\ \end{array}$

ANSMER 1 OF 4 CAPLUS COPTRIGHT 2005 ACS on STN (Continued) 353698-43-2 CAPLUS 3-Piranpropanoic acid, α -hydroxy- β -[[(2-methylpropoxy)carbonyl]amino]-. (2aR,45,485,6R,95,115,128,12aR,12b5)-12b-(acetylaxy)-12-(bencoyloxy)-4-([ethoxycarbonyl]oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dedecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-cmo-7,11-methano-IH-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (α R, β S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-45-4 CAPLUS
2-Puranpropanoic acid, a-hydroxy-β-{{(2methylpropany)carbonyl]amino}-, (2aR,4S,4eS,6R,9S,11S,12S,12aR,12bS)-12b(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-

6,11-dihydroxy-4-{(methoxycarbonyl)oxy}-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR, RR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

352698-49-8 CAPLUS
2-Puranpropanoic acid, α-hydroxy-β-[((2E)-1-oxo-2-butenyl]amino]-. (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

Absolute stereochemistry. Double bond geometry as shown.

352698-50-1 CAPLUS 2-Thiophenepropanoic acid, α -hydroxy- β -[[(2E)-1-oxo-2-butenyl]amino]-, (2aR, 45, 485, 6R, 95, 115, 125, 12aR, 12bS)-12b-{acetyloxy}-12-

(benzoyloxy) -2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4-[(methoxycarbonyl)oxy] -4a, 8, 13, 13-tetramethyl-5-oxo-7, 11-methano-H-cyclodeca[3, 4]benz[1, 2-b]oxet-9-yl ester, (αR, RR)- (9CI) (CA INDEX NAME)

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry. Double bond geometry as shown.

352698-51-2 CAPLUS
2-Furanpropanoic acid, α-hydroxy-β-{(3-methyl-1-oxo-2-butenyl)aninol-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-

4s,8,13,13-tetramethyl-5-oxo-4-[([phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-53-4 CAPLUS 2-Puranpropanoic acid, α -hydroxy- β -[(3-methyl-1-oxo-2-

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

152698-55-6 CAPLUS 2-Puranpropanoic acid, α -hydroxy- β -{{(2E)-1-oxo-2-butenyl]amino}-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-{(ethoxycarbonyl)oxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz{1,2-b}oxet-9-yl ester, { α R, β R}- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

352698-56-7 CAPLUS
2-Thiophenepropanoic acid, α-hydroxy-β-[{[28]-1-oxo-2-butenyl]amino]-, (2aR,4S,4sS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-

4e, 8, 13, 13 - tetramethyl - 5 - oxo - 4 - [(phenylmethoxy) carbonyl] oxy] - 7, 11 - methano-1H - cyclodeca [3, 4] benz [1, 2-b] oxet - 9 - yl ester, (αR, βR) - (9CI) (CA INDEX NAME)

ANSMER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) butenyl)amino}-, (2aR,45,4aS,6R,9S,115,125,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-((ethoxycarbonyl)oxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetranethyl-5-oxo-7,11-methano-1H-cyclodeca(3,4)benz(1,2-b)oxet-9-yl ester, (0R,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-54-5 CAPUS
2-Puranpropanoic acid, \$\(\beta\)-{{(1,1-dimethylethoxy)carbonyl}amino}-a-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-

4a,8,13,13-tetramethyl-5-oxo-4-[{(phenylmethoxy)carbonyl}oxy}-7,11-methano-IH-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (eR,BR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN Absolute stereochemistry. Double bond geometry as shown. (Continued)

352698-57-8 CAPLUS

332698-57-8 CAPLUS 2-Thiophenepropanoic acid, α -hydroxy- β -[[(2E)-1-0x0-2-butenyl]amino]-, (2aR,4S,4sS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4s,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-0x0-7,11-methano-1H-cyclodeca(3,4)benz[1,2-b]oxet-9-yl ester, (α R, β R)- (9CI) (CA INDEX RAME)

Absolute stereochemistry.

Double bond geometry as shown.

 $\label{eq:capacity} $$3-$2698-58-9$ CAPLUS $$3-$Puranpropanoic acid, $\beta-[[(1,1-dimethylethoxy) carbonyl]amino]-$$a-hydroxy-, $(2aR, 45, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a, 3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, $(\alpha R, \beta S)-$$(9CI)$ (CA INDEX NAME)$

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry.

352698-59-0 CAPLUS
3-Puranpropanoic acid, α-hydroxy-β-{(2E)-1-oxo-2-butenyl]amino}-, (2aR, 4s, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl]oxy]-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4a, 8, 13, 13-tetramethyl-5-oxo-7, 11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR, βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

352698-60-3 CAPLUS
3-Puranpropanoic acid, α-hydroxy-β-{[(2E)-1-0x0-2-butenyl]amino]-, (2aR, 4S, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-(acetyloxy)-12-

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

152698-62-5 CAPLUS 3-Thiophenepropanoic acid, α -hydroxy- β -[{(2E)-1-oxo-2-butenyl]amino}-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoy]oxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (α R, β S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

352698-63-6 CAPLUS 3-Thiophenepropanoic acid, $\alpha\text{-hydroxy-}\beta\text{-}\{\{(2E)\text{-1-oxo-2-butenyl}\}\text{amino}\}$, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-{acetyloxy}-12-

zoyloxy) -2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4- $\{(methoxycarbonyl)oxy\}$ -4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz(1,2-b]oxet-9-yl ester, $(aR,\beta S)$ - (9CI) (CA INDEX NAME)

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(aethoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4|benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX RAME)

Absolute stereochemistry.
Double bond geometry as shown.

352698-61-4 CAPLUS
3-Thiophenepropanoic acid, a-hydroxy-β-[{[2-cethylpropoxy]carbonyl]amino]-, {2aR,45,4aS,6R,95,11S,12S,12aR,12bS}-12b-(acetylpxy)-12-(benzoy]oxy)-4-[(ethoxycarbonyl]oxy]2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl
ester, (αR,βS)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN Absolute stereochemistry. Double bond geometry as shown. (Continued)

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

PORMAT

```
L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:581864 CAPLUS
DOCUMENT NUMBER: 135:153983
ITILE: Preparation and formulation of taxanes having improved
                                                                                                                             solubility for pharmaceutical use as antitumor agents Holton, Robert A. Florida State University Research Foundation, Inc., USA PCT Int. Appl., 319 pp. CODEN: PIXXD2 Patent English 9
  INVENTOR(S):
PATENT ASSIGNEE(S):
  SOURCE:
  DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                     PATENT NO. KIND DATE APPLICATION NO. DATE

MO 2001057013 A1 20010809 MO 2001-US3624 20010202

M: AE, AL, AM, AT, AU, AZ, BA, BB, BC, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, SS, PI, GB, GD, GB, GH, GM, RR, HU, ID, LI, IR, IS, DP, KE, KD, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, KK, MN, MM, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, S1, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VB, YU, ZA, ZM, AM, AZ, BT, CB, GR, GM, KE, KB, MM, KZ, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, DE, DK, ES, PI, FR, GB, GR, IB, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CP, CG, CT, CM, GA, GB, GM, ML, MR, NE, SN, TD, TG

CA 2367661 AA 20010809 CA 2001-2367661 20010202

AU 2001031610 A5 2010814 AU 2001-13680 20010202

US 6649612 B2 2001004156 A 20020102

BR 2001004156 A 20020102

BR 2001004156 A 20010202
                           PATENT NO.
                                                                                                                                                           DATE
                                                                                                                                                                                                                            APPLICATION NO.
                                                                                  20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203

20010203
                           EP 1175414
R: AT, BE,
IE, SI,
US 2002052403
                          US 2002052403
US 6638973
JP 2003521545
NZ 514073
CA 2354471
ZA 2001006333
NO 2001004752
ZA 2001008055
US 2003060638
                                                                                                                                                                                                                           JP 2001-556863
NZ 2001-514073
CA 2001-2354471
2A 2001-6333
NO 2001-4752
ZA 2001-8055
US 2002-71924
                                                                                                                                                                  20040227
                                                                                                                                                                  20030131
                                                                                                                                                                  20020801
20011127
                                                                                                                                                                  20031201
                                                                                                                                                                                                                                                                                                                                                  20011001
20020206
                                                                                                                                                                  20030327
                                        6750245
2004024051
6872837
                                                                                                                                                                  20040615
                                                                                                                                                                                                                            US 2003-609301
                                                                                                                                                                                                                                                                                                                                                  20030627
                                                                                                                                                                 20040205
                                        6872837
2004034230
6906088
2004072872
                                                                                                                                                                                                                                                                                                                                                  20030711
                                                                                                                                                                                                                            US 2003-618063
                                                                                                                                                                  20040219
                                                                                                                                                                  20050614
                                                                                                                                                                                                                             US 2003-676222
                                                                                                                                                                                                                                                                                                                                                  20031001
                                                                                                                                                                  20040415
                           US 2004097579
US 2004087547
US 6861446
                                                                                                                                                                 20040520
20040506
20050301
                                                                                                                                                                                                                             US 2003-680649
US 2003-720826
                                                                                                                                                                                                                                                                                                                                                  20031007
20031124
                           US 2004122055
US 2004138267
                                                                                                                                                                                                                             US 2003-720615
US 2003-743581
                                                                                                                                                                 20040624
20040715
                                                                                                                                                                                                                                                                                                                                                              ODP.
                       ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
                                                                                                                                                                                                                                                                                                      (Continued)
           STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - · AVAILABLE VIA OFFLINE PRINT •
                              Taxanes, such as I [R7, R10 = H, acyl, carboxy, carbamoyl, etc.; X3 = alkyl, alkenyl, alkynyl, Ph, substituted Ph, heteroaryl; X5 = H, acyl, carboxyl, carboxamide, etc.] with improved solubility, were prepared for
 arkyl, alkenyl, alkynyl, Ph. BubBitutes Ph. Retcleskyl As A. acyl. carboxyl, carboxamide, etc.) with improved solubility, were prepared for use as antitumor agents. Thus, taxotere analog II was prepared via esterification of baccatin III derivative III (R? = COCH2Me, R10 = SiEt3) with β-lactam IV followed by a deprotection step using HP. The prepared taxanes were tested for cytotoxic activity against HCT116 cells. Pharmaceutical formulations of the prepared taxanes were also presented.

17 32427-29-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 132698-10-19 1326
                         logical atudy, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and formulation of texanes having improved solubility for pharmaceutical use as antitumor sgents) 352427-29-3 CAPLUS 2-Puranpropanolc acid, B-[[(1,1-dimethylpropoxy)carbonyl]amino]-a-hydroxy-, [2aR, 48, 48, 58, 58, 95, 115, 125, 12aR, 12b5)-12b-(acetyloxy)-12-(benzoyloxy)-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-
```

4a,8,13,13-tetremethyl-5-oxo-4-[[(phenylmethoxy)carbonyl]oxy)-7,11-methano-IH-cyclodeca[3,4]penz[1,2-b]oxet-9-yl ester, (qR,RR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

L	ANSWER 2 OF 4	CAPLUS COP	RIGHT 2005	ACS	on STN	(Continue	:d)
	US 2005020635	A1	20050127		2004-867275		20040614
	US 2005143446	Al	20050630		2005-63626		20050223
	US 2005143447	A1	20050630		2005-68166		20050228
	US 2005182098	A1	20050818		2005-67882		20050228
_	US 2005165051	A1	20050728		2005-82380		20050317
P	HORITY APPLN. INF	ю.:		US	2000-179669	, ,	20000202
				US	2000-179670	P P	20000202
				ŲS	2000-179671	P P	20000202
				US	2000-179672	P P	20000202
				us	2000-179674	P P	20000202
				บร	2000-179684	P P	20000202
				ŲS	2000-179782	P P	20000202
				US	2000-179793	P P	20000202
				US	2000-179794	P P	20000202
				US	2001-775852	Αī	20010202
				US	2001-775912	, A1	20010202
				US	2001-776137	A1	20010202
				ŲS	2001-776274	A1	20010202
				us	2001-776393	A1	20010202
			•	US	2001-776426	A3	20010202
				US	2001-776492	A1	20010202
	•	•		US	2001-776494	A1	20010202
				WO	2001-U53624	w	20010202
				US	2002-71924	A1	20020206
	•			US	2003-609301	A1	20030627
				VS	2003-618063	A1	20030711
				us	2003-720826	Ai	20031124
				US	2003-743581	A1	20031222
G	THER SOURCE(S):	MARPAT	135:152983				

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

152698-18-1 CAPLUS 2-Thiophenepropanoic acid, α -hydroxy- β -{{{1-methylethoxylcarbonyl]amino]-, {2aR, 45, 46, 68, 95, 115, 125, 12aR, 12bS}-12b-(acetyloxy)-12-(benzoyloxy)-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-

6.11-dihydroxy-4-[{methoxycarbonyl)oxyl-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR, RR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-19-2 CAPLUS 2-Thiophenepropanoic acid, α -hydroxy- β -[[[1-methylethoxy]carbonyl]amino]-, [2aR, 45, 485, 6R, 95, 115, 125, 12aR, 12b5]-12b-(acetyloxy)-12-(banzyloxy)-4-([ethoxycarbonyl]oxy]-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4a, 8, 13, 13-tetramethyl-5-oxo-7, 11-methano-1H-cyclodeca [3, 4]benz[1, 2-b]oxet-9-ylester, (α R, β R)- [9CI] (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

352698-20-5 CAPLUS

351898-20-5 CAPLUS 2-Thiophenepropanoic acid, α -hydroxy- β -[{3-methyl-1-oxo-2-butenyl]aminol-, {2aR,4S,4S,6R,9S,11S,12S,12aR,12bS}-12b-{acetyloxy}-12-benzoyloxy]-4-{{ethoxycarbonyl]oxy}-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, { α R, β R}- {9CI} (CA INDEX INDEX

Absolute stereochemistry.

352698-21-6 CAPLUS

352698-21-6 CAPLUS
2-Thiophenepropanoic acid, β-(benzoylamino)-α-hydroxy-,
(2aR, 45, 485, 6R, 95, 115, 125, 12aR, 12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-(ethoxycarbonyl)oxy)-2a, 3, 4, 48, 56, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4a, 8, 13, 13-tetramethyl-5-cxo-7, 11-methano-1H-cyclodecal [3, 4]benz [1, 2-b]oxet-9-y] eater, (α, RR)-(9CI) (CA

ANSMER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) α -hydroxy-, (2aR,45,4aS,6R,95,115,125,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-((ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (α R, β R)- (9Cl) (CA INDEX NAME)

Absolute stereochemistry

352698-24-9 CAPLUS
2-Thiophenepropanoic acid, α-hydroxy-β-[(3-methyl-1-oxo-2-butenyl)amino]-, (2aR, 4S, 4sS, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-(acetyloxy)-12-

(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca(3,4|benz[1,2-b]oxet-9-yl ester, (aR,BR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

352698-25-0 CAPLUS 2-Thiophenepropanoic acid, β -[[(1,1-dimethylethoxy)carbonyl]amino]-

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN INDEX NAME) (Continued)

Absolute stereochemistry.

352698-22-7 CAPLUS
2-Thiophenepropanoic acid, β-[(2-furanylcarbonyl)amino]-α-hydroxy-, (2aR, 45, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-(acetyloxy)-12-

(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,BR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-23-8 CAPLUS 2-Thiophenepropanoic acid, β -{[(1,1-dimethylethoxy)carbonyl]amino]-

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) α -hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycerbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR,RR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

352698-26-1 CAPLUS
2-Thiophenepropanoic acid, B-[(2-furanylcarbonyl)amino]-a-hydroxy-, (2aR, 45, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-(acetylcxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4a, 8, 13, 13-tetramethyl-5-oxo-7, 11-methano-1H-cyclodeca[3, 4]benz[1, 2-b]oxet-9-yl ester, (qR, BR)- (9CI) (CA INDEX NAME)

352698-28-3 CAPLUS 2-Thiophenepropanoic acid, α -hydroxy- β -[[{2-

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) methylpropoxy)carbonyl]amino]-, (2aR, 45, 4a5, 6R, 95, 115, 125, 12aR, 12b5)-12b-(acetyloxy)-12-(benzoyloxy)-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-

6.11-dihydroxy-4-{(methoxycarbonyl)oxy}-4a.8.13.13-tetramethyl-5-oxo-7.11-methano-1H-cyclodeca{3,4}benz{1,2-b}oxet-9-yl ester, (αR,βR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-29-4 CAPLUS
2-Thiophenepropanoic acid, a-hydroxy-β-[[[2-methylpropxy]carbonyl]amino]-, [2aR,45,485,6R,95,115,125,12aR,12b5)-12b-(acetylaxy)-12-(benzoy]oxy)-4-[(ethoxycarbonyl)oxy]2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-IH-cyclodeca[3,4]benx[1,2-b]oxet-9-yl ester, (aR,BR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSMER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, $\{\alpha R, \beta R\}$ - (9CI) (CA INDEX NAME)

352698-32-9 CAPLUS 3-Furanpropanoic acid, β -{{{1,1-dimethylethoxy}carbonyl}amino}- α -hydroxy-, (2aR, 45, 485, 6R, 95, 115, 125, 12aR, 12bS)-12b-{acetyloxy}-12-

(benzoyloxy) -2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4-[(methoxycarbonyl)oxy] -4a, 8, 13, 13-tetramethyl-5-oxo-7, 11-methano-1H-cyclodeca[3, 4]benz[1, 2-b]oxet-9-yl ester, (aR, BS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

152698-33-0 CAPLUS 2-Thiophenepropanoic acid, α -hydroxy- β -[(2-thiophenepropanoic acid, α -hydroxy- β -[(2-thiony)carbony]]aminoi-, (2aR, 45, 4a5, 6R, 95, 115, 125, 12aR, 12bS)-12b-(acetyloxy)-12-(baroyloxy)-4-([cthoxycarbony])oxy]-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4a, 8, 13, 13-

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

152698-10-7 CAPLUS 2-Thiophenepropanoic acid, β -(benzoylamino)- α -hydroxy-, (2aR, 45, 4aS, 6R, 95, 115, 125, 12aR, 12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-4-(methoxycarbonyl)oxy]-4a, 8, 13, 13-tetramethyl-5-oxo-7, 11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (α R, β R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-31-8 CAPLUS
2-Thiophenepropanoic acid, a-hydroxy-β-{{2-thiopylcarbonyl}amino}-, {2aR,45,4aS,6R,95,115,125,12aR,12bS}-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-

6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-

ANSMER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) tetramethyl-5-oxo-7, 11-methano-1H-cyclodecs[3,4]benz[1,2-b]oxet-9-ylester, (qR, RR) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-34-1 CAPLUS
3-Thiophenepropanoic acid, β-[{(1,1-dimethylethoxy)carbonyl]amino}α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

rzcyloxy) -2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz{1,2-bjoxet-9-y1 ester, (aR,BS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

352698-36-3 CAPLUS 3-Thiophenepropanoic acid, β -{((1,1-dimethylethoxy)carbonyl]amino}- α -hydroxy-, (28A,4S,48S,6R,9S,11S,12S,12BS)-12b-(acetyloxy)-12-(benzoyloxy)-4-((ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-

ANSWER 2 OF 4 CAPLUS COPTRIGHT 2005 ACS on STN (Continued) cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (uR, \$\beta\$) - (9C1) (CA INDEX NAME)

352698-39-6 CAPLUS
2-Purampropanoic acid, B-[{{1,1-dimethylethoxy}carbony}]amino]-a-hydroxy-, (2aR, 45, 46S, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-{acetyloxy}-12-

Absolute stereochemistry.

352698-41-0 CAPLUS

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

352698-45-4 CAPLUS
2-Puranpropanoic acid, α-hydroxy-β-[[(2-meth)]propany)carbony]lamino]-, (2aR, 4S, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-(acety]oxy)-12-(benzoyloxy)-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-

6.11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR,RR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-46-5 CAPLUS
3-Thiophenepropanoic acid, α-hydroxy-β-{{{2-methylpropay}(archonyl)amino}-, {2aR, 4S, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS}-12b-(acetyloxy)-12-(benzoyloxy)-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-

6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR, \$S)-{9CI} (CA INDEX NAME)

ANSMER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
3-FURANDEOPANY) each of the continued (Continued)
4-FURANDEOPANY) each of the continued

6.11-dihydroxy-4-{ (methoxycarbonyl)oxy}-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca{3,4}benx[1,2-b]oxet-9-yl ester, (aR, BS)-(9CI) (CA INDEX NAME)

Absolute Stereochemistry.

352698-43-2 CAPLUS 3-Purenpropanoic acid, a-bydroxy- β -[[[2-methy]propoxy] carbony] amino]-, [2aR,45,48,6R,95,115,125,12aR,12bS]-12b-(acety]cay]-12-(benxoy]cxy]-4-[[ethoxycarbony]]oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dedecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-y1 ester, (α R, β S)- [9CI] (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN Absolute stereochemistry. (Continued)

352698-48-7 CAPLUS
2-Puranpropanoic acid, α-hydroxy-β-[{(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4a8,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]2a, 3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz(1,2-b)oxet-9-ylester, (αR,βR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-49-8 CAPLUS 2-Puranpropanoic acid, α -hydroxy- β -[[(2E)-1-oxo-2-buteny1]amino)-, (2aR,45,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

| 12cyloxy| -2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy, 4-| (methoxycarbonyl)oxy| -4a, 8, 13, 13-tetramethyl-5-oxo-7, 11-methano-1H-cyclodeca[3, 4]benz[1, 2-b]oxet-9-yl ester, (qR, BR)- (9CI) (CA INDEX NAME)

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN Absolute stereochemistry. Double bond geometry as shown. (Continued)

352698-50-1 CAPLUS 2-Thiophenepropanoic acid, α-hydroxy-β-[[(28]-1-oxo-2-butemyl]smino]-, (28R,4S,4mS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR, RR)- (9CI) (CA INDEX ROME)

Absolute stereochemistry. Double bond geometry as shown.

352698-51-2 CAPLUS 2-Furanpropanoic acid, α -hydroxy- β -{(3-methyl-1-oxo-2-

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

352698-54-5 CAPLUS
2-Puranpropanoic acid, β -{{(1,1-dimethylethoxy)carbonyl]amino}a-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-

4a,8,13,13-tetramethyl-5-oxo-4-[[(phenylmethoxy)carbonyl)oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

 $\begin{array}{lll} 352698-55-6 & \text{CAPLUS} \\ 2-\text{Puranpropanoic acid}, & \alpha-\text{hydroxy-}\beta-\{\{\{2E\}-1-\text{oxo-}2-\text{butenyl}\}\text{amin}, & \{28,48,485,68,95,115,125,1281,125\} -12b-\{\text{acetyloxy}\}-12-(\text{benzoy})-4-\{\{\text{ethoxycarbonyl}\}\text{oxy}\}-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]\text{benz}[1,2-b]\text{oxet-9-yl} & \text{ester}, & \{\alpha R,\beta R\}-\{9CI\} & \{CA\},AB\} &$

Absolute stereochemistry.

ANSWER 2 OF 4 CAPILIS COPYRIGHT 2005 ACS on STN (Continued) butenyllamino)-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecabydro-6,11-dihydroxy-

4a,8,13,13-tetramethyl-5-oxo-4-{{(phenylmethoxy)carbonyl}oxy}-7,11-methano-1H-cyclodeca[3,4]benz{1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-53-4 CAPLUS
2-Puranpropanoic acid, α-hydroxy-β-[(3-methyl-1-oxo-2-butenyl)amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-doderahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9Cl) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN Double bond geometry as shown. (Continued)

352698-56-7 CAPLUS

324898-36-7 CARDOS
2-Thiophenepropanoic acid, α-hydroxy-β-[[{2E}-1-oxo-2-butenyl]amino]-, (2aR, 4S, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-{acetyloxy}-12-(benzoyloxy)-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-6, 11-dihydroxy-

4a,8,13,13-tetramethyl-5-oxo-4-{[(phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

352698-57-8 CAPLUS

183498-57-8 CAPLUS 2-1hiophenepropanoic acid, α -hydroxy- β -[[(28)-1-oxo-2-butenyl]amino]-, (28R,4S,4S,6R,9S,11S,12S,128R,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(achoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (uR, β R)- (9Cl) (CA INDEX NNB)-

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

bsolute stereochemistry.

352698-58-9 CAPLUS
3-Puranpropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[[ethoxycarbonyl]oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12bdodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1Hcyclodeca[,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

352698-59-0 CAPLUS

3-Puranpropanoic acid, α-hydroxy-β-[{(25)-1-oxo-2-butenyl}amino]-, (2aR,45,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

ANSMER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) (bentoyloxy)-4-(ethoxycarbony))oxy)-2a,3,4,4a,5,5,6,9,10,1,12;12a,12b-dodecahydro-6,11-dhydroxy-4a,6,1,3,13-terramethyl-5-0x0-7,11-methano-lH-cyclodeca[3,4]benx[1,2-b]oxet-9-yl ester, (dx,pS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

352698-60-3 CAPLUS
3-Puranpropenoic acid, α-hydroxy-β-[((2E)-1-oxo-2-butenyl]amino]-, (2aR, 4S, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-(acetyloxy)-12-

Absolute stereochemistry.
Double bond geometry as shown.

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

352698-61-4 CAPLUS
3-Thiophenepropanoic acid, a-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4eS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-bloxet-9-ylester, (αR,βS)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

352698-62-5 CAPLUS 3-Thiophenepropanoic acid, a-hydroxy- β -{{(2E)-1-oxo-2-butenyl]amino}-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-{(ethoxycarbonyl]oxy}-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (aR, β S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

352698-63-6 CAPLUS 3-Thiophenepropanoic acid, α-hydroxy-β-{[(2E)-1-oxo-2-butenyl]sminol-, (2aR, 4S, 4sS, 6R, 9S, 11S, 12S, 12aR, 12bS)-12b-(acetyloxy)-12-

(benzoyloxy) -2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy] -4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (aR,BS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

352427-31-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and formulation of taxanes having improved solubility for pharmaceutical use as antitumor agenta)
352427-31-7 CAPLUS
2-Purampropanolc acid, β-[[(1,1-dimethylpropoxy)carbonyl]amino}-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

ANSMER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) (benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-6-[(methoxyacetyl)oxy]-4a,8,13,13-tetramethyl-5-oxx-4-[(phenylaethoxy)carthoxyl)oxy]-7,11-methon-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (qR,BR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

THERE ARE 22 CITED REFERENCES AVAILABLE FOR REFERENCE COUNT: THIS 22 RECORD. ALL CITATIONS AVAILABLE IN THE RE

PORMAT

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS On STN (Continued)
US 2000-179684P P 20000202 US 2000-179782P P 20000202 US 2000-179793P P 20000202 US 2000-179794P 20000202 W 20010202

OTHER SOURCE(S): MARPAT 135:152982

Taxanes of formula I [R1 = H, OH; R2 = acyloxy; R3 = keto, OH, acyloxy;

- heterosubstituted acetate; X1 = alkyl, alkenyl, Ph, heterocyclyl; X2 = acyl, CO2alkyl, CO2heterocyclyl, etc.], having a heterosubstituted acetate substituent at C(10), are prepared as antitumor agents. Thus, II was

accetate
substituent at C(10), are prepared as antitumor syemes.

prepared
and had in vitro cytotoxicity of ID50 < 1 nm against HCT116 cells.

IT 352427-29-3P 352427-31-7P
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of C10 heterosubstituted acetate taxanes as antitumor agents)

agents)
RN 352427-29-3 CAPLUS
CN 2-Puranpropanoic acid, β-{{(1,1-dimethylpropoxy)carbonyl}amino}-

L3 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:581700 CAPLUS
DOCUMENT NUMBER: 135:153992
INVENTOR(S): PATENT ASSIGNEE(S): Plorida State University Research Poundation, Inc., USA
SOURCE: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: PIXXD2
Bright ACC. NUM. COUNT: PIXXD2
Bright ACC. NUM. COUNT: PIXXD2
Bright ACC. NUM. COUNT: PIXXD2

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

							DATE										
		01056564			Al		20010809		WO 2001-US3553						20010202		
	w:	AE,	AL.	AM,	AT,	ΑU,	AZ,	Bλ,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	æ
		CZ,	DE,	DK,	DM,	EE,	ES.	FI.	GB,	GD,	GE,	GH,	GM,	HR,	HU.	ID,	11
		IN,	IS.	JP,	KB,	KG,	KP.	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	w,	LV,	MA
		MD,	MG,	MK,	MN,	MON ,	MX,	NO.	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	51
		SK,	SL.	TJ,	TM,	TR,	TT.	TZ.	UΑ,	UG,	υz,	VN,	YU,	ZA,	ZW.	AM,	ΑZ
		BY,	KG.	KZ,	MD,	RU,	TJ,	TM									
	RW:	GH,	GM,	KE,	LS,	MN,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW.	AT,	BE,	CH,	CY
		DE,	DK,	ES,	PI,	FR,	GB,	GR,	IB,	IT,	ш,	MC,	NL.	PT,	SE,	TR,	BP
		BJ,	CF,	œ,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NB,	SN,	TD,	TG		
CA	2368 2001 7767 2001 1165	502			AA		2001	0809		CA 2	1001 -	2368	502		2	0010	202
λU	2001	0347	92		A5		2001	0814		AU 2	001-	3479	2		2	0010	202
ΑU	7767	67			B2		2004	0923									
BR	2001	0043	50		A		2002	0102		BR 2	1001 -	4350			2	0010	202
EP	1165	06B			A1		2002	0102		EP 2	1001 -	9069	51		2	0010	202
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU.	NL,	SE,	MC,	PT
		IE,	SI,	LT,	LV,	PI,	RO										
US	2002 6638 2002 6664 2003 5144 2001 2001	0524	03		A1		2002	0502		US 2	1001 -	7764	26		2	0010	202
US	6638	973			B2		2003	1028									
US	2002	0687	55		Al		2002	0606		US 2	1001 -	7759	12		2	0010	202
US	6664	275			B2		2003	1216									
JP	2003	5215	14		T2		2003	0715		JP 2	1001 -	5562	55		2	0010	202
NZ	5144	06			A		2005	0128		NZ 2	1001 -	5144	06		2	0010	202
ZA	2001	0063	34		A		2002	0801		ZA 2	1001 -	6334			2	0010	801
BR	2001	0066	93		A		2004	1123		BR 2	1001 -	6693			2	0010	808
ZA	2001	0080	52		A		2003	1201		2A 2	1001 -	8052			2	0011	001
ŲS	2001 2004 6872	0240	51		A1		2004	0205		US 2	1003 -	6093	01		2	0030	627
US	6872	837			B2		2005	0329									
US	2004	0975	79		A1		2004	0520		US 2	1003 -	6806	49		2	0031	007
US	2005	1434	47		A1		2005	0630		US 2	1005 -	6816	6		2	0050	228
RIT	2004 2005 APP	LN.	INPO	. :						US 2	1000-	1796	69P		P 2	0000	202
										us a	000-	1796	70P		P 2	0000	202
										us 2	000-	1796	71P		P 2	0000	202
															P 2		

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) a-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-

4a, 8, 13, 13-tetramethyl-5-oxo-4-{{(phenylmethoxy)carbonyl]oxy}-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR, βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

352427-31-7 CAPLUS 2-Furanpropanoic acid, $\beta = [\{(1,1-\text{dimethylpropoxy}) | \text{carbonyl} \} \text{ amino}] - \alpha - \text{hydroxy-}, (2aR, 4S, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS) - 12b - (acetyloxy) - 12 - (benzoyloxy) - 2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b - dodecahydro - 11 - hydroxy - 6 - (anchoxyacetyl) oxy] - 4a, 8, 13, 13 - tetramethyl - 5 - oxo-4 - (f(phenylmethoxy) carbonyl] oxy] - 7, 11 - methano - 1H - cyclodeca [3, 4] benz [1, 2-b] oxet-9-yl ester, (aR, <math>\beta$ R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

Page 17 ORMAT

A1 20030627

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1994:701105 CAPLUS DOCUMENT NUMBER: 121:301105 TITLE: Preparation of taxane derivatives as antiproliferatives Bouchard, Herve; Bourzat, Jean-Dominique; commercon, INVENTOR(S): Bouchard, Herve; Boursat, Je Alein Rhone-Poulenc Rorer SA, Fr. Fr. Demande, 44 pp. CODEN: FRIXEL Patent Prench 1 PATENT ASSIGNEE (S): SOURCE: DOCUMENT TYPE: KIND DATE

A1 1940527 FR A
B1 19941330
AA 19940609 CA 1993-A
A1 19940609 WO 1993-FR1
CR, PI, HU, JP, KR, NO, NZ, PL, RU,
A1 19940622 AU 1994-55659
B2 19970731
A 19940628 ZA 1993-8728
A1 19950906 P 1994-900862
B1 19970122
BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, NL,
T2 19960416 JP 1993-512841
A2 19961028 KU 1995-1500
B1 19970125 AT 1994-900862
T3 19970101 ES 1994-900862
T3 19970101 ES 1994-900862
T3 19970101 ES 1994-900862
T3 19970215 AT 1994-900862
T3 19970215 AT 1994-900862
T3 19970215 IP 1995-2017
T19950524 PI 1995-2017
T19950524 PI 1995-2462
T19970225 US 1995-42462
T19970225 US 1995-14023
WO 1993-FR1145 FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO.

PR 2698363
PR 2698363
CA 2149758
MO 9412484
M: AU, CA, CZ, F
RN: AT, BE, CH, I
AU 9455659
AU 680455
EP 669916
ER: AT, BE, CH,
JP 05503486
HU 74069
AT 148111
ES 2096440
NO 9502017
FI 9502482
US 5606003
PRIORITY APPLN. INFO.: DATE PATENT NO. 19921123 19931122 19931122 NL, PT, SE 19931122 19931122 19931122 19950523 A 19921123 19931122 OTHER SOURCE(S):

(Continued) ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

I

Title compds. [I; R = H or Ac; RI = Bz, CO2R2; R2 = (cyclo)slk(en)yl, Ph, heterocyclyl, etc.; R3 = 5-membered heteroaryl) were prepared as antiproliferatives (no dats). Thus, (2RS,4S,5R)-3-tert-butoxycarbonyl-2-(4-methoxyphenyl)-4-(3-thienyl)oxarbidine-5-carboxylic acid (6-step preparation given) was esterified by 4-sactoxy-12-benzoyloxy-5B,20-epoxy-1,130-dihydroxy-9-oxo-7B,10B-bis(2,2,2-trichloroethoxycarbonyloxy)-51-caxens to give, in 3 addnl. steps, 4-sactoxy-2a-benzoyloxy-5B,20-epoxy-1,7B,10B-trihydroxy-9-oxo-11-taxen-11a-y1 (2R,3S)-3-tert-butoxycarbonylamino-3-(3-thienyl)-2-hydroxypropionate.

R1: RCT (Reactant): 93180-01-7P 193180-11-7P 193180-12-8P 193180-12-8P 193180-20-8P 193180-12-9P [Preparation]; RACT (Reactant): SPM (Synthetic preparation); PREP (Preparation); RACT (Reactant): SPM (Synthetic preparation of antiproliferative) 159180-02-6 CAPLUS 3-Thiophenepropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]aminol-α-hydroxy-, 12b-(sactyloxy)-12-(benzoyloxy)-13-(benzoyloxy)-12-(benzoyloxy)-12-(benzoyloxy)-12-(benzoyloxy)-12-(benzoyloxy)-12-(benzoyloxy)-13-(benzoyloxy)-13-(benzoyloxy)-13-(benzoyloxy)-14-(benzo AΒ

Absolute stereochemistry.

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

159180-03-7 CAPLUS 3-Thiophenepropanoic acid, β -amino- α -hydroxy-, 12b- (acetyloxy)-12- (benzoyloxy)-2a, 3, 4, 4a, 5, 6, 9, 10, 11, 12, 12a, 12b-dodecahydro-11-hydroxy-4a, 8, 13, 13-tetramethyl-5-oxo-4, 6-bis[{2,2,2-trichloroethoxy}|caxphonyl]oxyl-7, 11-methano-1H-cyclodeca{3,4}benz[1,2-a,b]cxet-9-yl-ester, [2aR-[2aa,4 β ,4a β ,6 β ,9a(.alpha=.R- β 5-),1ia,12a,12aa,12ba]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

159180-11-7 CAPLUS 2-Thiophenepropanoic acid, β -[[(1,1-dimethylethoxy)carbonyl]amino]- α -hydroxy-. 12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-4a,8,13,13-tetramethyl-5-oxo-4,6-bie[[(2,2,2-trichloroethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxot-9-yl ester, [2aR-[2a\alpha,4 β ,48 β ,6 β ,9a(aR+, β R+),11a,12a,12aa,12ba]]- (9CI) (CA INDEX NAME)

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN Absolute stereochemistry. (Continued)

159180-12-8 CAPLUS
2-Thiophenepropanoic acid, β-amino-α-hydroxy-,
12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12bdodecahydro-11-hydroxy-4a,8,13,13-tetramethyl-5-oxo-4,6-bis{(2,2,2-trichloroethoxy)carboxy]0xy]-7,11-acethano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [2aR-{2aα,4β,4aβ,6β,9α(.alph
a.R-,BR*),11α,12α,12aα,12bα]]- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

159180-20-8 CAPLUS
3-Puranpropanoic acid, β-{{(1,1-dimethylethoxy)carbonyl}amino}-a-hydroxy-, 12b-(acetyloxy)-12-(benzoyloxy)2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-4a,8,13,13-

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) tetramethyl-5-oxo-4,6-bis[[(2,2,2-trichloroethoxy)carbonyl]oxy]-7,11-eethano-1H-cyclodeca[3,4]bens[1,2-bloxet-9-yl ester, [2aR-[2a,4B,46,6,9,0(aR-,65*),11a,12a,12aa,12ba]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

159180-21-9 CAPLUS 3-Puranpropanoic acid, β -amino- α -hydroxy-, 12b-{acetyloxy}-12-(benzoyloxy)-2a.3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-

4a, 8, 13, 13 -tetramethyl-5-oxo-4, 6-bis[{(2,2,2-trichloroethoxy)carbonyl}oxy]7, 11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester,
{2aR-[2aa,48,48,68,9a(QR*,85*),11.a
lpha.,12a,12aa,12ba]]- (GCI) (CA INDEX NAME)

Absolute stereochemistry.